997 Functional Acknowledgment

Functional Group ID=S0

CBP MMM OCEAN X.12 IMPLEMENTATION GUIDE

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

M	Pos. <u>No.</u> 0100	Seg. ID ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u> n1
M	0200	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			>1	
	0300	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			>1	
	0400	AK3	Data Segment Note	O	1		c1
	0500	AK4	Data Element Note	O	99		
M	0600	AK5	Transaction Set Response Trailer	M	1		
M	0700	AK9	Functional Group Response Trailer	M	1		
M	0800	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- 1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.
 - There is only one Functional Acknowledgment Transaction Set per acknowledged functional group. Only one acknowledgement, either a single Transaction Set 997 or a single Transaction Set 999, should be generated for a functional group unless mutually agreed upon.
- 2. AK1 is used to respond to the functional group header and to start the acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

 The Functional Acknowledgement is generated at the point of translation, intended for the originator (not any intermediate parties).
 - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
- 3. AK2 is used to start the acknowledgment of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards or proper



Segment: ST Transaction Set Header

Position: 0100

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose:

To indicate the start of a transaction set and to assign a control number

Syntax Notes: Semantic Notes:

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:

			Duta Element Summary		
	Ref.	Data			
	Des.	Element	<u>Name</u>	Attributes	
M	ST01	143	Transaction Set Identifier Code	M	1 ID 3/3
			Code uniquely identifying a Transaction Set		
			Refer to 005040 Data Element Dictionary for acceptable co	de value	es.
M	ST02	329	Transaction Set Control Number	\mathbf{M}	1 AN 4/9
			Identifying control number that must be unique within the tr	ansacti	on set
			functional group assigned by the originator for a transaction	set	
	ST03	1705	Implementation Convention Reference	O	1 AN 1/35
			Reference assigned to identify Implementation Convention		

Segment: AK1 Functional Group Response Header

Position: 0200

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To start acknowledgment of a functional group

Syntax Notes: Semantic Notes:

- 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.
- 3 AK103 is the version release industry identifier code in the GS segment (GS08) in the functional group being acknowledged.

Comments:

	Ref.	Data	Data Diement Summary					
	Des.	Element	<u>Name</u>	Attributes				
\mathbf{M}	AK101	479	Functional Identifier Code	\mathbf{M}	1 ID 2/2			
			Code identifying a group of application related transaction se	ets				
			Refer to 005040 Data Element Dictionary for acceptable cod	e value	es.			
M	AK102	28	Group Control Number Assigned number originated and maintained by the sender	M	1 N0 1/9			
	AK103	480	Version / Release / Industry Identifier Code	0	1 AN 1/12			
			Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed Refer to 005040 Data Element Dictionary for acceptable code values.					

Segment: AK2 Transaction Set Response Header

Position: 0300

Loop: AK2 Optional

Level:

Usage: Optional

Max Use:

Purpose: To start acknowledgment of a single transaction set

Syntax Notes: Semantic Notes:

1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

3 AK203 is the implementation convention reference, if any, found in the ST segment (ST03) in the transaction set being acknowledged.

Comments:

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	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>
\mathbf{M}	AK201	143	Transaction Set Identifier Code	\mathbf{M}	1 ID 3/3
			Code uniquely identifying a Transaction Set		
			Refer to 005040 Data Element Dictionary for acceptable coo	le value	es.
M	AK202	329	Transaction Set Control Number	\mathbf{M}	1 AN 4/9
			Identifying control number that must be unique within the tr	ansacti	on set
			functional group assigned by the originator for a transaction	set	
	AK203	1705	Implementation Convention Reference	O	1 AN 1/35
			Reference assigned to identify Implementation Convention		

Segment: AK3 Data Segment Note

Position: 0400

Loop: AK3 Optional

Level:

Usage: Optional

Max Use:

Purpose: To report errors in a data segment and identify the location of the data segment

Syntax Notes: Semantic Notes:

Comments:

	Ref.	Data					
	Des.	Element	<u>Name</u>	<u>Attributes</u>			
M	AK301	721	Segment ID Code	\mathbf{M}	1	ID 2/3	
			Code defining the segment ID of the data segment in error (Number 77)	See App	endi	x A -	
M	AK302	719	Segment Position in Transaction Set	\mathbf{M}	1	N0 1/10	
			The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1				
	AK303	447	Loop Identifier Code	O	1	AN 1/4	
			The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE				
	AK304	720	Segment Syntax Error Code	O	1	ID 1/3	
			Code indicating error found based on the syntax editing of a segment				
			Refer to 005040 Data Element Dictionary for acceptable code values.				

Segment: AK4 Data Element Note

Position: 0500

Loop: AK3 Optional

Level:

Usage: Optional Max Use: 99

Purpose: To report errors in a data element or composite data structure and identify the location of

the data element

Syntax Notes:

Semantic Notes:

1 In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

Comments:

M	Ref. <u>Des.</u> AK401	Data <u>Element</u> C030	Name Position in Segment	Attr M	<u>ributes</u> 1		
M	C03001	722	Code indicating the relative position of the simple data elem data structure in error within a segment, count beginning wit immediately following the segment ID; additionally indicatin position of a repeating structure in error, count beginning with position immediately following the preceding element separation indicating the relative position of a component of a composition, count beginning with 1 for the position following the por repetition separator Element Position in Segment	th 1 for t ng the re th 1 for t ator; add te data s	he position lative the litionally tructure in		
	C03002	1528	This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID				
	C03002	1526	Component Data Element Position in Composite To identify the component data element position within the error	Ocomposi	No 1/2 te that is in		
	C03003	1686	Repeating Data Element Position To identify the specific repetition of a data element that is in	O error	N0 1/4		
	AK402	725	Data Element Reference Number Reference number used to locate the data element in the Dat Dictionary	O a Elemen	1 N0 1/4		
M	AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element to 005040 Data Element Dictionary for acceptable code		1 ID 1/3		
	AK404	724	Copy of Bad Data Element This is a copy of the data element in error	0	1 AN 1/99		

Segment: AK5 Transaction Set Response Trailer

Position: 0600

Loop: AK2 Optional

Level:

Usage: Mandatory

Max Use:

Purpose:

To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes:

Comments:

	Ref.	Data							
	Des.	Element	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>				
M	AK501	717	Transaction Set Acknowledgment Code	\mathbf{M}	1 ID 1/1				
			Code indicating accept or reject condition based on the syntax transaction set	c editing	g of the				
			Refer to 005040 Data Element Dictionary for acceptable code	e values	S.				
	AK502	718	Transaction Set Syntax Error Code	0	1 ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set						
			Refer to 005040 Data Element Dictionary for acceptable code values.						
	AK503	718	Transaction Set Syntax Error Code	0	1 ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set						
			Refer to 005040 Data Element Dictionary for acceptable code values.						
	AK504	718	Transaction Set Syntax Error Code	0	1 ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set						
			Refer to 005040 Data Element Dictionary for acceptable code values.						
	AK505	718	Transaction Set Syntax Error Code	0	1 ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set						
			Refer to 005040 Data Element Dictionary for acceptable code values.						
	AK506	718	Transaction Set Syntax Error Code	0	1 ID 1/3				
			Code indicating error found based on the syntax editing of a t	ransact	ion set				
			Refer to 005040 Data Element Dictionary for acceptable code	e values	S.				

Segment: AK9 Functional Group Response Trailer

Position: 0700

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of

included transaction sets from the original trailer, the accepted sets, and the received sets

in this functional group

Syntax Notes: Semantic Notes:

Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is

accepted.

	Ref.	Data	v				
	Des.	Element	<u>Name</u>	<u>Attri</u>			
M	AK901	715	Functional Group Acknowledge Code	M		ID 1/1	
			Code indicating accept or reject condition based on the syntax	editing	of	the	
			functional group Refer to 005040 Data Flormant Distinguis for accordable and				
M	A 17.002	07	Refer to 005040 Data Element Dictionary for acceptable code Number of Transaction Sets Included	M		NO 1/6	
M	AK902	97	Total number of transaction sets included in the functional gro		1	N0 1/6	
			interchange (transmission) group terminated by the trailer con	-	thi	s data	
			element	tunning		Gutu	
M	AK903	123	Number of Received Transaction Sets	M	1	N0 1/6	
			Number of Transaction Sets received				
M	AK904	2	Number of Accepted Transaction Sets	M	1	N0 1/6	
			Number of accepted Transaction Sets in a Functional Group				
	AK905	716	Functional Group Syntax Error Code	O	1	ID 1/3	
			Code indicating error found based on the syntax editing of the	functio	onal group		
			header and/or trailer				
	. ======		Refer to 005040 Data Element Dictionary for acceptable code				
	AK906	716	Functional Group Syntax Error Code	0		ID 1/3	
			Code indicating error found based on the syntax editing of the	functio	nal	group	
			header and/or trailer Refer to 005040 Data Element Dictionary for acceptable code	waluec			
	AK907	716	Functional Group Syntax Error Code	O Varues.		ID 1/3	
	AK907	/10		•	_		
			Code indicating error found based on the syntax editing of the header and/or trailer	Tunctio	mai	group	
			Refer to 005040 Data Element Dictionary for acceptable code	values			
	AK908	716	Functional Group Syntax Error Code	0		ID 1/3	
			Code indicating error found based on the syntax editing of the	functio	nal	group	
			header and/or trailer	10110010		810 u p	
			Refer to 005040 Data Element Dictionary for acceptable code	values.			
	AK909	716	Functional Group Syntax Error Code	0	1	ID 1/3	
			Code indicating error found based on the syntax editing of the	functio	nal	group	
			header and/or trailer				
			Refer to 005040 Data Element Dictionary for acceptable code	values.			

Segment: SE Transaction Set Trailer

Position: 0800

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	Element	<u>Name</u>	Attributes		
M	SE01	96	Number of Included Segments	\mathbf{M}	1	N0 1/10
			Total number of segments included in a transaction set inclu	ding ST	and	SE
			segments			
M	SE02	329	Transaction Set Control Number	M	1	AN 4/9
			Identifying control number that must be unique within the translational group assigned by the originator for a transaction		n se	t